

The Knowledge Bank at The Ohio State University

Ohio State Engineer

Title: Engineering in the Synthetic Rubber Program

Issue Date: 1944-02

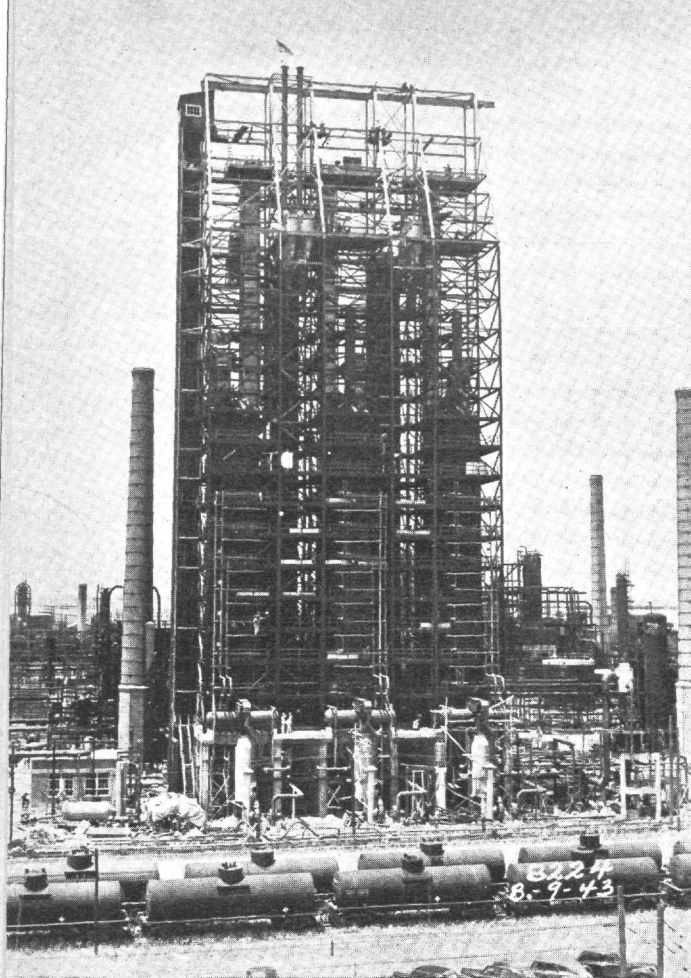
Publisher: Ohio State University, College of Engineering

Citation: Ohio State Engineer, vol. 27, no. 3 (February, 1944), 16-17.

URI: <http://hdl.handle.net/1811/36035>

ENGINEERING IN THE SYNTHETIC

These Pictures Show Some of Equipment Used in the Production of
"Buna S" Rubber (A Copolymer of Styrene and Butadiene)
From Petroleum



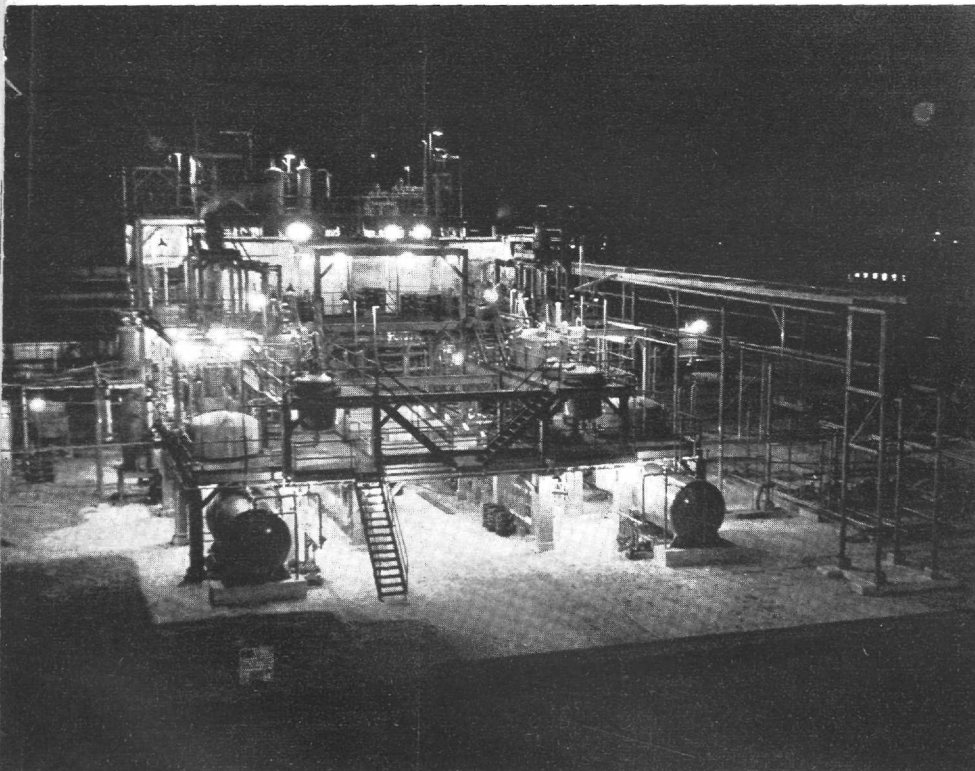
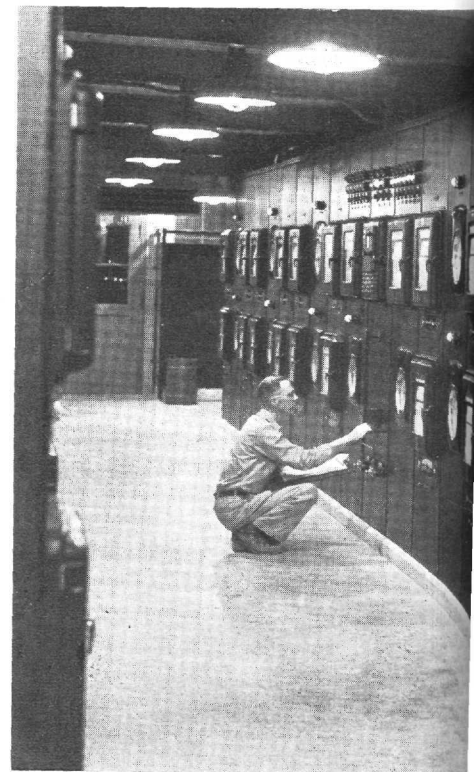
A Three Reactor Thermofor Catalytic Cracking Unit Capable of Producing 30,000 Barrels of Charge Oil Per Day for Use in the Production of Synthetic Rubber.

Courtesy The Lummus Company

Upper Center:

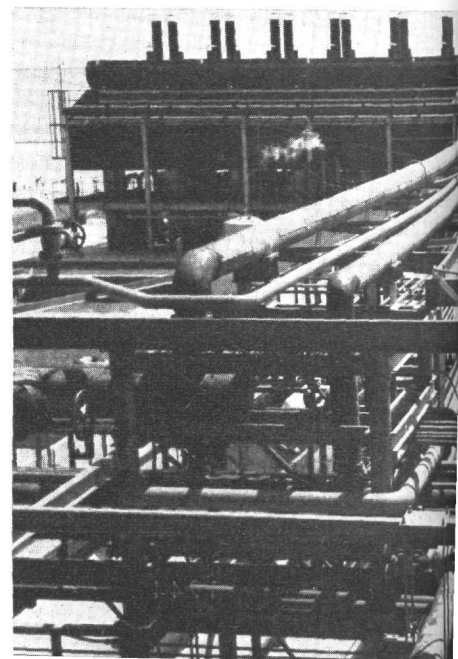
In This Control Room the Most Minute Operation is Recorded and Adjustments are Made in the Manufacture of Styrene.

Courtesy the Monsanto Chemical Co.



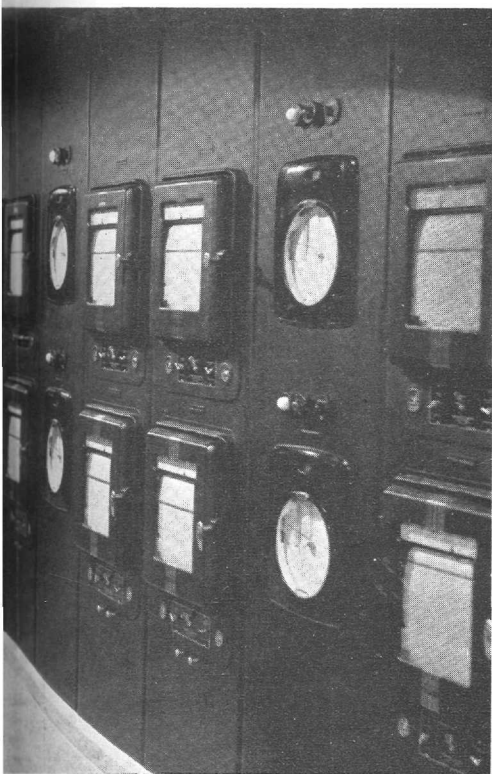
In This Unit the Alkylation of Ethyl Benzene Processing Begins. Engineering Has Brought About Plants Such as this Without Roofs or Side Walls, Hence They are Sometimes Referred to as "Battleships".

Courtesy The Monsanto Chemical Co.



ENGINEERING RUBBER PROGRAM

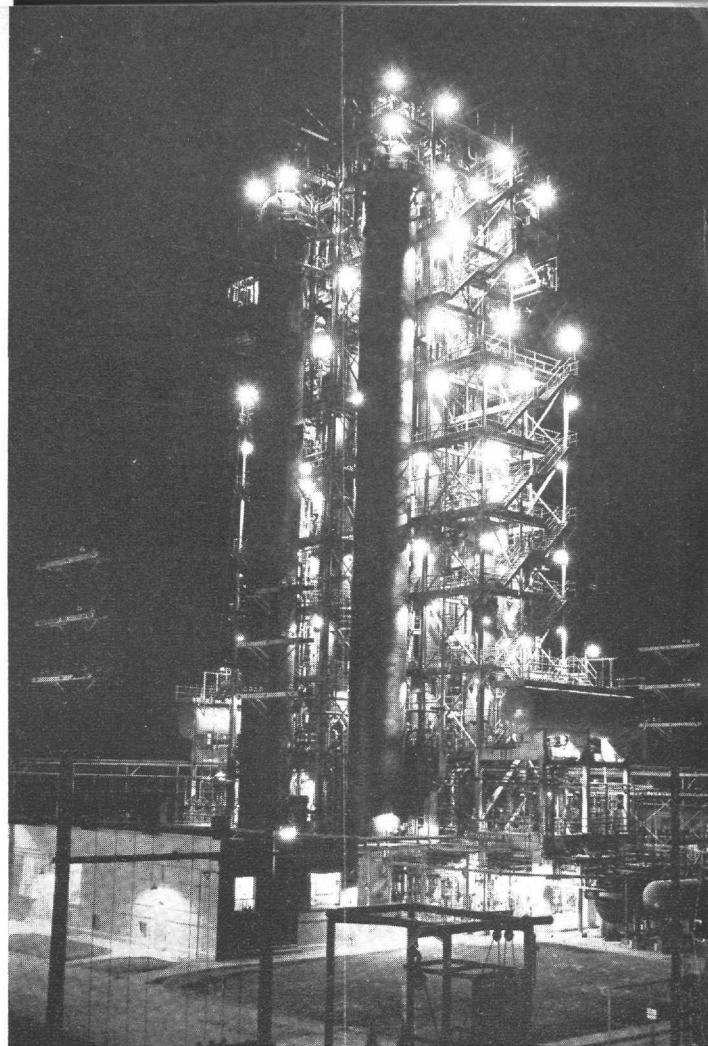
Equipment Used in the Production of
Polymer of Butadiene and Styrene)
Petroleum Products



Lower Center:

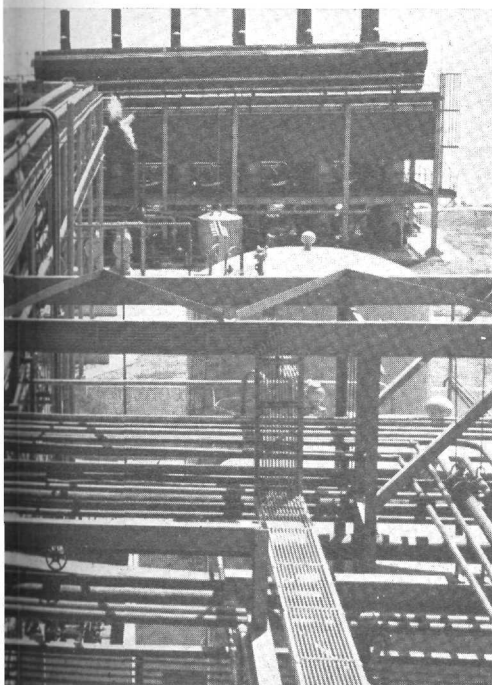
**This Maze of Pipes Forms
the Processing Service
Lines at a Styrene Plant.
In the Background is a
Dehydrogenation Plant.**

*Courtesy the Monsanto
Chemical Co.*



**An Illuminated Distillation Tower of a Styrene Plant. Styrene
Production From Petroleum is Based on Two Raw Materials—
Propane and Benzene.**

Courtesy The Monsanto Chemical Company



**A Synthetic Rubber Plant Making Butadiene From Petroleum Raw Material.
This Plant Will Produce 100,000 Tons of Butadiene Per Year.**

Courtesy The Lummus Company